

Overview

WAP300N is a highly flexible device which features four modes of operation:

- Access Point (AP) mode
- Wireless Media Connector (WMC) mode
- Wireless Range Extender (WRE) mode
- Wireless Bridge (WB) mode

WAP300N is a selectable dual-band Wireless-N (802.11n) device and, therefore, it can operate in either 2.4 GHz or 5.0 GHz radio band.

Access Point Mode



- If you have a wired network, this mode adds the ability to connect wireless devices (such as notebook computers, tablets, and smartphones) to the network.
- If you have an older wireless network, for example, Wireless-A/B/G (802.11a/b/g), this mode adds Wireless-N (802.11n) networking support to your network.

- If you have a Wireless-N (802.11n) 2.4 GHz-only network, this mode adds support for the 5 GHz radio band.
- If your current wireless router has a limited wireless coverage and you have a wired network in your house, this mode can extend the wireless coverage, by creating an additional wireless network, if you connect this device to your wired network.

Access Point mode is the default operation mode in case the device is being reset to factory default settings.

If you would like to use WAP300N in this mode,

Step 1: Proceed to Setup > Operation Mode and follow the instructions to set the device to this mode.

Step 2: Proceed to Wireless > Basic Wireless Settings and follow the instructions to configure the basic wireless settings.

Step 3: Proceed to Wireless > Wireless Security and follow the instructions to configure the wireless security.

Step 4: Use an Ethernet cable to connect WAP300N's Ethernet port to the Ethernet/LAN port of your existing router or your wired network.

Wireless Media Connector Mode



In this mode, WAP300N adds wireless networking capability to any wired (Ethernet-capable) device (e.g. game console, media player, DVR, smart TV or network access storage). If you have a wired network device, connect it to this device for wireless network access.

If you would like to use WAP300N in this mode,

Step 1: Proceed to Setup > Operation Mode and follow the instructions to set the device to this mode.

Step 2: Proceed to Wireless > Wireless Network Site Survey (recommended) or Wireless > Basic Wireless Settings, and follow the instructions to configure the basic wireless settings.

Step 3: Use an Ethernet cable to connect WAP300N's Ethernet port to the Ethernet/LAN port of your wired device that would like to access the wireless network.

Wireless Range Extender Mode



In this mode, this device wirelessly extends the range of an existing wireless network. At the same time, it also adds wireless networking capability to any wired (Ethernet-capable) device (e.g. game console, media player, DVR, smart TV or network access storage).

If you would like to use WAP300N in this mode,

Step 1: Proceed to Setup > Operation Mode and follow the instructions to set the device to this mode.

Step 2: Proceed to Wireless > Wireless Network Site Survey (recommended) or Wireless > Basic Wireless Settings, and follow the instructions to configure the basic wireless settings.

Step 3: Place WAP300N in between your existing wireless router and the wireless devices that originally have difficulty of connecting to your wireless router due to weak wireless signal. For the best positioning of WAP300N in Wireless Range Extender mode, you may need to test it in multiple locations.

Wireless Bridge Mode



With multiple WAP300Ns operating in this mode, WAP300Ns can wirelessly connect two or more wired networks together.

NOTE: When this device is set to Wireless Bridge mode, it will communicate only with other WAP300N(s) that is/are also in Wireless Bridge mode. Therefore, you will need at least two WAP300Ns to make use of this operation mode.

If you would like to use WAP300N in this mode,

Step 1: Proceed to Setup > Operation Mode and follow the instructions to set the device to this mode.

Step 2: Proceed to Wireless > Basic Wireless Settings and follow the instructions to configure the basic wireless settings.

Step 3: Proceed to Wireless > Wireless Security and follow the instructions to configure the wireless security.

Step 4: Connect WAP300N's Ethernet port to one of your wired networks. Repeat step 1 to 3 on additional WAP300Ns and install one WAP300N in each wired network that needs to be wirelessly connected together.

LEDs, Ports and Buttons



LEDs

Wireless

In WMC and WRE mode, the Wireless LED lights (solid) up when there is a wireless connection to the wireless router (or access point).

In WB mode, the Wireless LED lights (solid) up when there is a wireless connection to another WAP300N. In all modes, the Wireless LED flashes when the device is actively sending or receiving data over its wireless interface.

Wi-Fi Protected Setup™

The LED flashes slowly for two minutes during Wi-Fi Protected Setup. It lights up when wireless security is enabled. If there is an error during the Wi-Fi Protected Setup process, the LED would flash quickly for two minutes. Make sure the wireless client device or wireless router, that you want to connect to WAP300N, supports Wi-Fi Protected Setup. Wait until the LED is off, and then try again.

Ethernet

The Ethernet LED lights up when there is a wired connection. The LED flashes when the Access Point is actively sending or receiving data over the Ethernet port.

Power

The Power LED lights up when the device is powered on.

Ports

Ethernet

In AP and WB mode, the Ethernet port connects the device to a router or an existing wired network.

In WMC and WRE mode, the Ethernet port connects the device to the Ethernet-capable device that would like to access the wireless network.

Power

The Power port connects the Access Point to the included power adapter.

Buttons

Reset

There are two ways to reset the Access Point to factory default settings. Either press and hold the Reset button for approximately five seconds, or restore the defaults from the Administration > Factory Defaults screen in the device's browser-based utility.

Wi-Fi Protected Setup™

If WAP300N is in AP mode and you have client devices, such as wireless adapters, that support Wi-Fi Protected Setup, you can use this Wi-Fi Protected Setup button to connect your client devices to WAP300N.

If WAP300N is in WMC mode and you have wireless router that supports Wi-Fi Protected Setup™, you can use this Wi-Fi Protected Setup button to connect WAP300N to your wireless router.

If WAP300N is in WRE mode and you have wireless router and wireless clients devices that support Wi-Fi Protected Setup, you can use this Wi-Fi Protected Setup button first to connect WAP300N to your wireless router and, once WAP300N is connected to your wireless router, you can then use the same button to connect your wireless client devices to WAP300N.

NOTE: Wi-Fi Protected Setup is not supported when WAP300N is in WB mode.



How to access the browser-based utility

Use a web browser to access the browser-based utility for advanced configuration of this device. Launch your web browser, and enter WAP300N's IP address* (the default setting is 10.100.1.1) in the Address field. Press Enter.

A password request screen appears (non-Windows 7 users will see a similar screen.) Leave the User name field blank. Enter the password you have created. If you did not create a new password, use the default password admin. (You can set a new password from the Administration > Management screen.) Click OK to continue.

* NOTE:

- If the device is connected to a network with a DHCP server (usually the network router), then the device will obtain its IP address from the DHCP server. In this case, find the device's IP address in the DHCP client table of your router (refer to the documentation for your router.)
- If there is no DHCP server (for example, if WAP300N is not wirelessly connected to any other device and it is connected directly to a computer with an Ethernet cable), then the device will use its default IP address, 10.100.1.1, until the device detects a DHCP server which will assign a dynamic IP address to the device.
- If you have set a static IP address on this device through the browser-based utility, then enter the static IP address instead. If you have set a static IP address on this device but have forgotten the IP address, you can reset the device; press the Reset button on the device for approximately five seconds using a straightened paper clip. This will reset the device back to the factory default settings.

Setup > Basic Setup

The first screen that appears is the Basic Setup screen. Use this screen to change the browser-based utility's language, or to change the device's wired Ethernet network settings.

The screenshot displays the Cisco WAP300N Basic Setup web interface. The top navigation bar includes the Cisco logo, the device model 'WAP300N', and the firmware version. The main menu is divided into 'Setup', 'Wireless', 'Administration', and 'Status'. The 'Setup' menu is expanded to show 'Network Setup' and 'Operation Mode'. The 'Language' section features a dropdown menu currently set to 'English'. The 'Network Setup' section includes a dropdown menu for configuration type, currently set to 'Automatic Configuration - DHCP'. The 'Device IP' section contains a 'Host Name' field with the value 'WAP300N'. At the bottom of the page, there are two buttons: 'Save Settings' and 'Cancel Changes'.

Language

This is used to set the language displayed by the browser-based utility. Select the desired language from the drop-down menu.

Device IP

This setting determines whether the device's IP address is obtained automatically from a DHCP server, such as your network router (Automatic Configuration - DHCP), or is set manually (Static IP).

If your network has a DHCP server (usually the network router) assigning IP addresses to your network devices, then keep the default, Automatic Configuration - DHCP. The device will request an IP address from the DHCP server. If no DHCP server is found, then the device will use its default static IP address, 10.100.1.1, until it has detected a DHCP server and is assigned a dynamic IP address.

For most home networks, leaving this setting Automatic Configuration - DHCP as is recommended.

If you want to set a permanent static IP address for this device, then select Static IP. If you select Static IP, complete the following fields:

- IP Address

Enter a unique IP address that will be used to access the browser-based utility.

- Subnet Mask

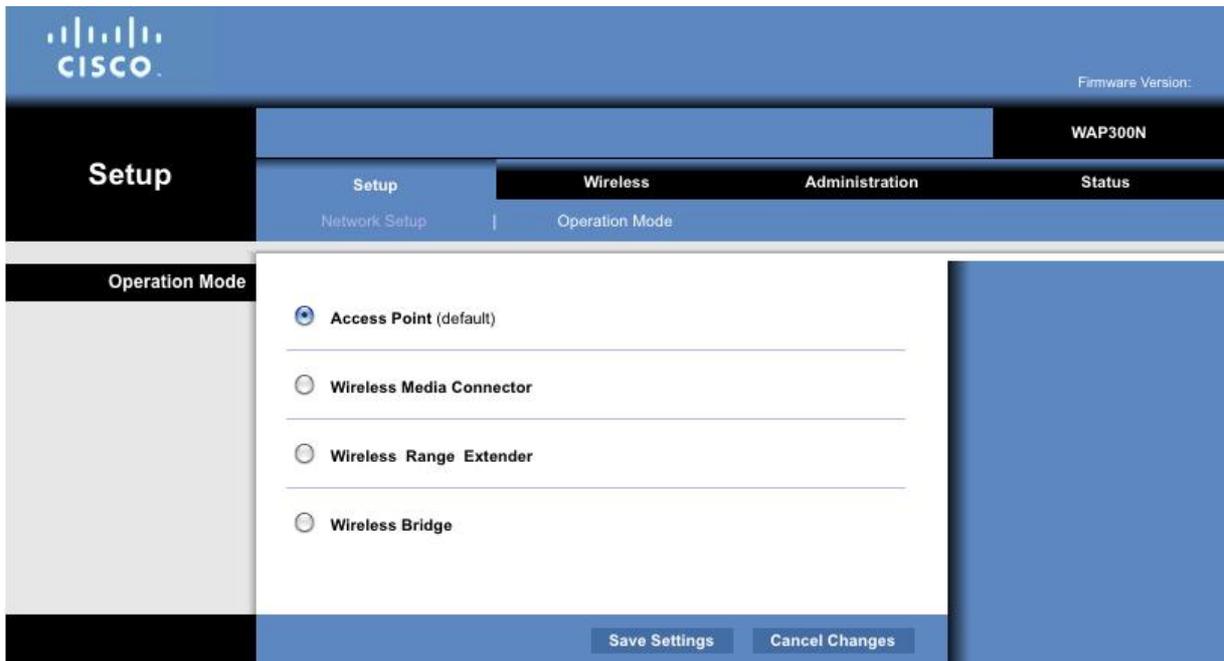
Enter the subnet mask of your network.

- Default Gateway

Enter the IP address of the default gateway for your network (in most cases, this is your router).

Click Save Settings to apply your changes, or click Cancel Changes to cancel your changes.

Setup > Operation Mode



WAP300N supports four operation modes:

- Access Point (AP) mode
- Wireless Media Connector (WMC) mode
- Wireless Range Extender (WRE) mode
- Wireless Bridge (WB) mode

Select the desired operation mode and click Save Settings to apply your changes, or click Cancel Changes to cancel your changes.

For information about each of these operation modes, please refer to Overview on page [XXX](#).

Wireless

The screens available under the tab Wireless depend on the operation mode that you have selected.

Operation Mode	Basic Wireless Settings	Wireless Security	Wireless Network Site	Wireless MAC Filter	QoS
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			Survey		
Access Point	X	X		X	X
Wireless Media Connector	X		X		X
Wireless Range Extender	X		X		TBD
Wireless Bridge	X	X			

In addition, the content of each screen under Wireless may also change depending on the operation mode that you have selected.

Wireless > Basic Wireless Settings

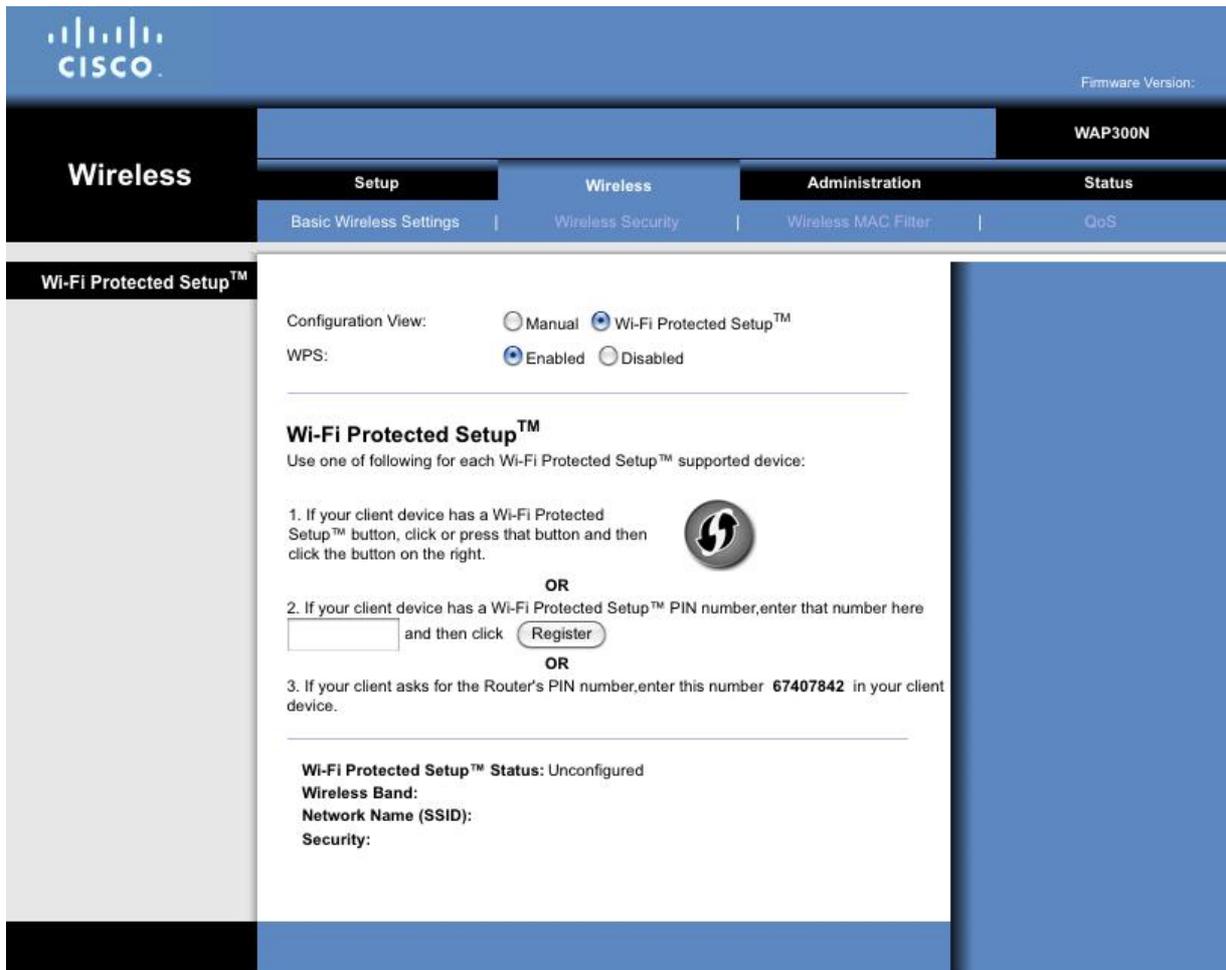
(Access Point Mode)

Configuration View

To use Wi-Fi Protected Setup, select **Wi-Fi Protected Setup™**. Then proceed to “Wi-Fi Protected Setup” .

To manually configure your wireless network, select **Manual**. Then proceed to “Manual Setup” on pag .

Wi-Fi Protected Setup™



Wi-Fi Protected Setup™ is a feature that makes it easy to set up your wireless network. If you have client devices, such as wireless adapters, that support Wi-Fi Protected Setup, then you can use Wi-Fi Protected Setup to configure wireless security for your wireless network. Otherwise, use manual setup (refer to “Manual Setup”).

There are three methods available for Wi-Fi Protected Setup.

1. Use Wi-Fi Protected Setup Button

- Click or press the Wi-Fi Protected Setup button on the wireless client device.
- Within two minutes, click the Wi-Fi Protected Setup button on the access point's Wi-Fi Protected Setup screen.
- After the client device has been configured, click Close.

2. Enter Wi-Fi Protected Setup PIN from the Client Device on WAP300N

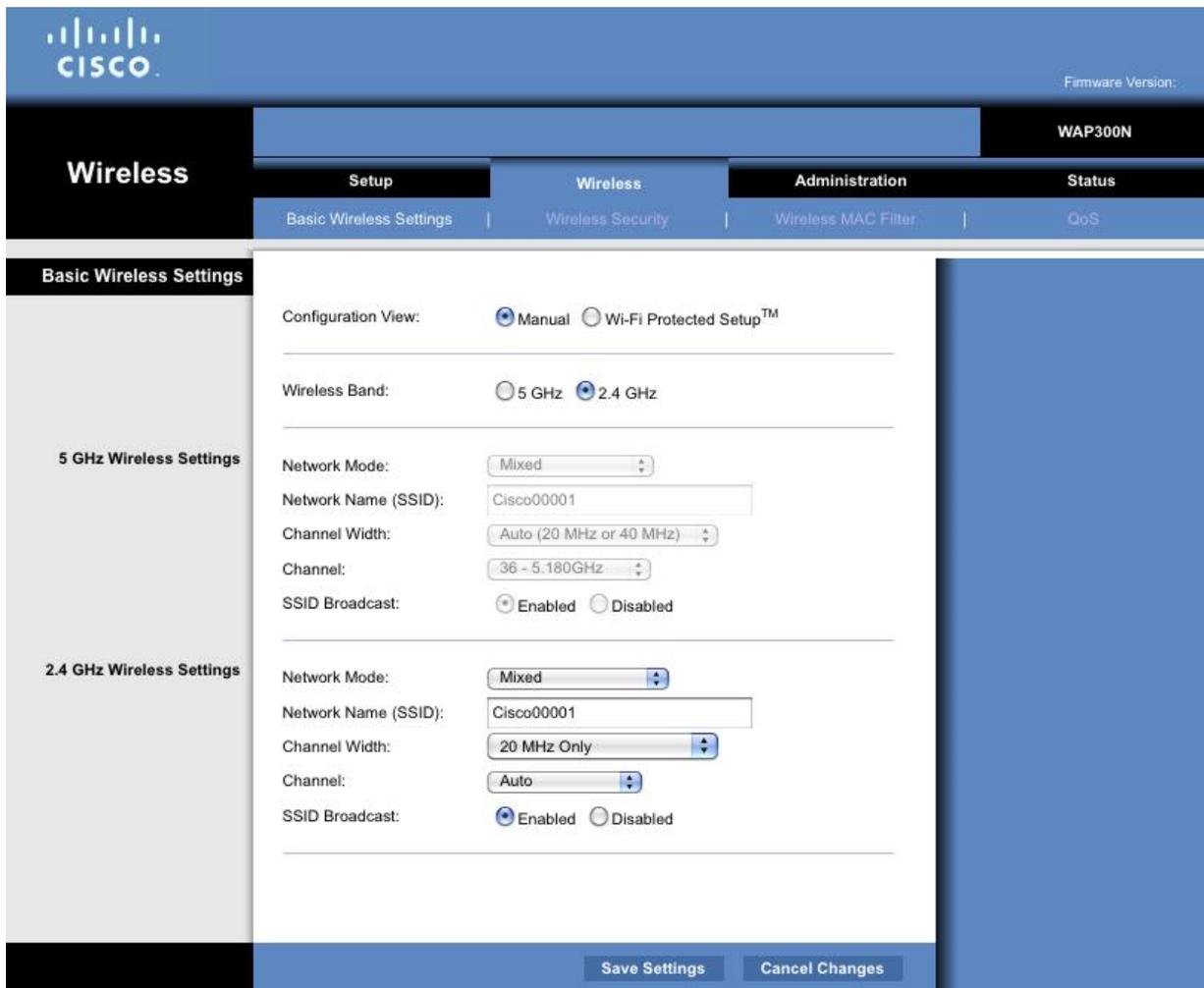
- Enter the client's PIN number in the field on this screen.
- Click Register.
- After the client device has been configured, click Close.

3. Enter Wi-Fi Protected Setup PIN from WAP300N on the Client Device

- On the client's Wi-Fi Protected Setup screen, enter the PIN number listed on WAP300N's Wi-Fi Protected Setup screen. Then click Register or the appropriate button on the client device's Wi-Fi Protected Setup screen. (The PIN number is also listed on the label on the bottom of the Access Point.)
- After the client device has been configured, click Close.

Regardless which method was used, the Wi-Fi Protected Setup Status, Wireless Band, Network Name (SSID), and Security mode are displayed at the bottom of the screen.

Manual Setup



Wireless Band

This is used to select the 2.4 GHz or 5 GHz radio band. The 5 GHz band is much less crowded than the 2.4 GHz band, so it is more likely that you will have your own interference-free channel and, therefore, 5 GHz band is ideal for streaming multimedia. However, not all wireless client devices support 5 GHz radio band.

Network Mode (5 GHz)

From this drop-down menu, you can select the wireless standards running on your network. If you have both Wireless-N (802.11n) and Wireless-A (802.11a) devices in your network, keep the default setting, Mixed. If you have only Wireless-N devices in your network, select Wireless-N Only. If you have only Wireless-A devices in your network, select Wireless-A Only.

Network Mode (2.4 GHz)

From this drop-down menu, you can select the wireless standards running on your network. If you have Wireless-N (802.11n), Wireless-G (802.11g), and Wireless-B (802.11b) devices in your network, keep the default, Mixed. If you have only Wireless-N devices, select Wireless-N Only. If you have only Wireless-G and Wireless-B devices in your network, select Wireless-B/G Only. If you have only Wireless-G devices, select Wireless-G Only. If you have only Wireless-B devices, select Wireless-B Only.

Network Name (SSID)

The SSID is the name of your wireless network. A wireless device uses this name to identify which wireless network it connects to. Therefore, this network name is shared among all the wireless devices connected to your wireless network. SSID is case-sensitive and must not exceed 32 characters (use any characters on the keyboard). For easy identification of your wireless network, it is recommended to customize the SSID to a unique name instead of using the default name. However, do not include sensitive information in a SSID (for example, social security number or date of birth). It is because SSID is visible to everyone within the range of your wireless network.

When you connect your wireless device to the access point, make sure you specify the SSID you have set here.

Channel Width

For best performance in a Wireless-N network, select 40MHz only (only available in 5 GHz radio band) or Auto. In Auto mode, the access point and the network client devices automatically switch to the 40 MHz mode if:

- Your wireless client devices support the 40 MHz mode in which two 20 MHz channels are bonded together for better performance.
- There is no adjacent interference.

Channel

Choose the operating channel for wireless network. Your access point will automatically select the channel with the least amount of interference if you leave the default Auto setting. Keeping the default setting Auto is recommended.

SSID Broadcast

When wireless client devices look for wireless networks to connect to, they detect the wireless network name (SSID) broadcasted by the access point. To broadcast your access point's SSID, keep the default setting, Enabled. If you do not want to broadcast the access point's SSID, select Disabled. Keeping the default setting, Enabled, is recommended.

To apply your changes, click Save Settings at the bottom of the screen, or click Cancel Changes to cancel your changes.

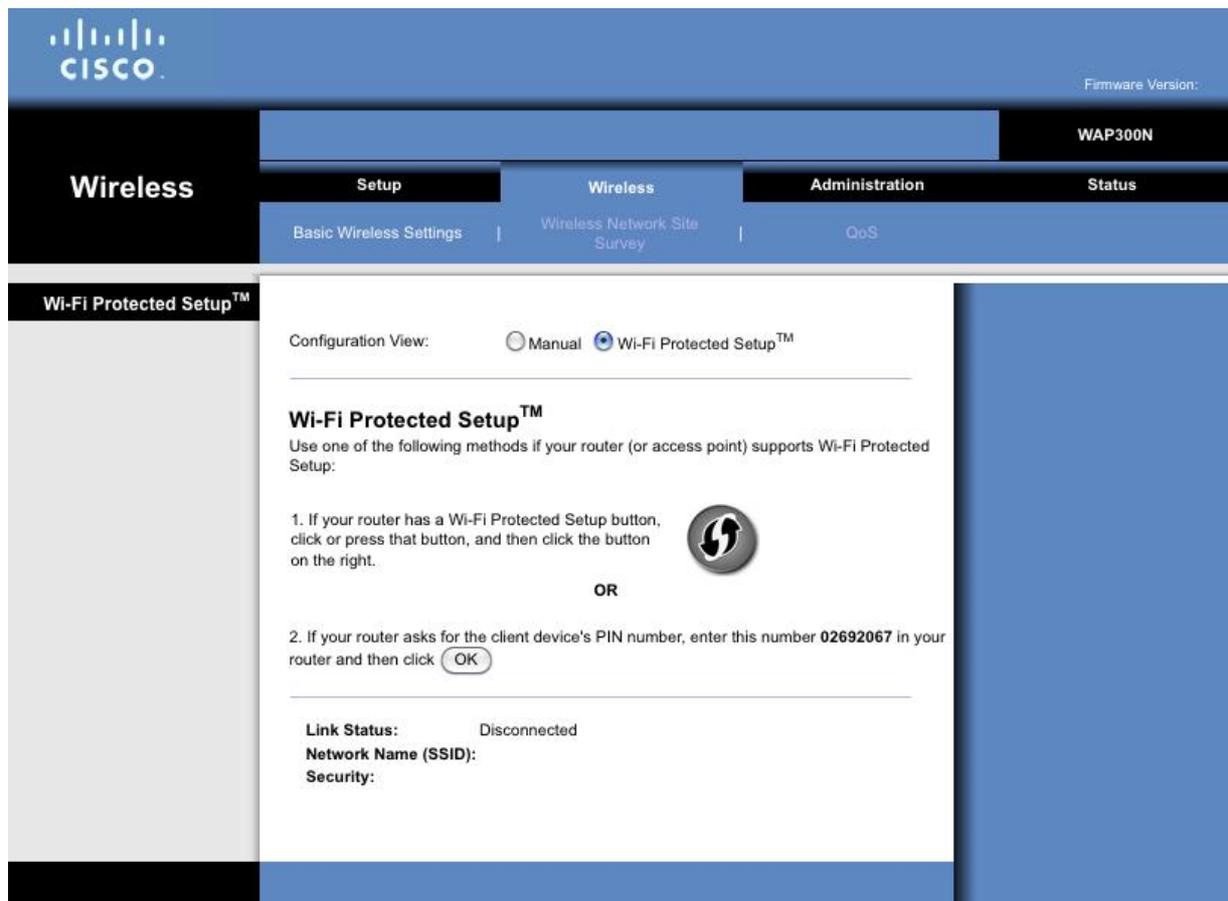
Wireless > Basic Wireless Settings

(Wireless Media Connector Mode)

Configuration View

To use Wi-Fi Protected Setup, select Wi-Fi Protected Setup™. Then proceed to “Wi-Fi Protected Setup” . To manually configure your wireless network, select Manual. Then proceed to “Manual Setup”.

Wi-Fi Protected Setup™



The screenshot displays the Cisco WAP300N web interface. The top navigation bar includes the Cisco logo and the firmware version 'WAP300N'. The main navigation menu is divided into 'Wireless', 'Setup', 'Administration', and 'Status'. Under 'Wireless', there are sub-menus for 'Basic Wireless Settings', 'Wireless Network Site Survey', and 'QoS'. The 'Wi-Fi Protected Setup™' page is active, showing two configuration options: 'Manual' (unselected) and 'Wi-Fi Protected Setup™' (selected). The page provides instructions for using the Wi-Fi Protected Setup feature, including a button icon and a PIN number '02692067'. The 'Link Status' is shown as 'Disconnected', and the 'Network Name (SSID)' and 'Security' fields are empty.

Configuration View: Manual Wi-Fi Protected Setup™

Wi-Fi Protected Setup™
Use one of the following methods if your router (or access point) supports Wi-Fi Protected Setup:

1. If your router has a Wi-Fi Protected Setup button, click or press that button, and then click the button on the right. 

OR

2. If your router asks for the client device's PIN number, enter this number **02692067** in your router and then click

Link Status: Disconnected
Network Name (SSID):
Security:

Wi-Fi Protected Setup™ is a feature that makes it easy to set up your wireless network. If your wireless router or access point supports Wi-Fi Protected Setup, then you can use Wi-Fi Protected Setup to connect this device to your router or access point. Otherwise, use manual setup (refer to “Manual Setup”).

There are two methods available for Wi-Fi Protected Setup.

1. Use Wi-Fi Protected Setup Button

- Click or press the Wi-Fi Protected Setup button on the wireless router.
- Within two minutes, click the Wi-Fi Protected Setup button on this device’s Wi-Fi Protected Setup screen.

- After WAP300N has been configured, click Close.

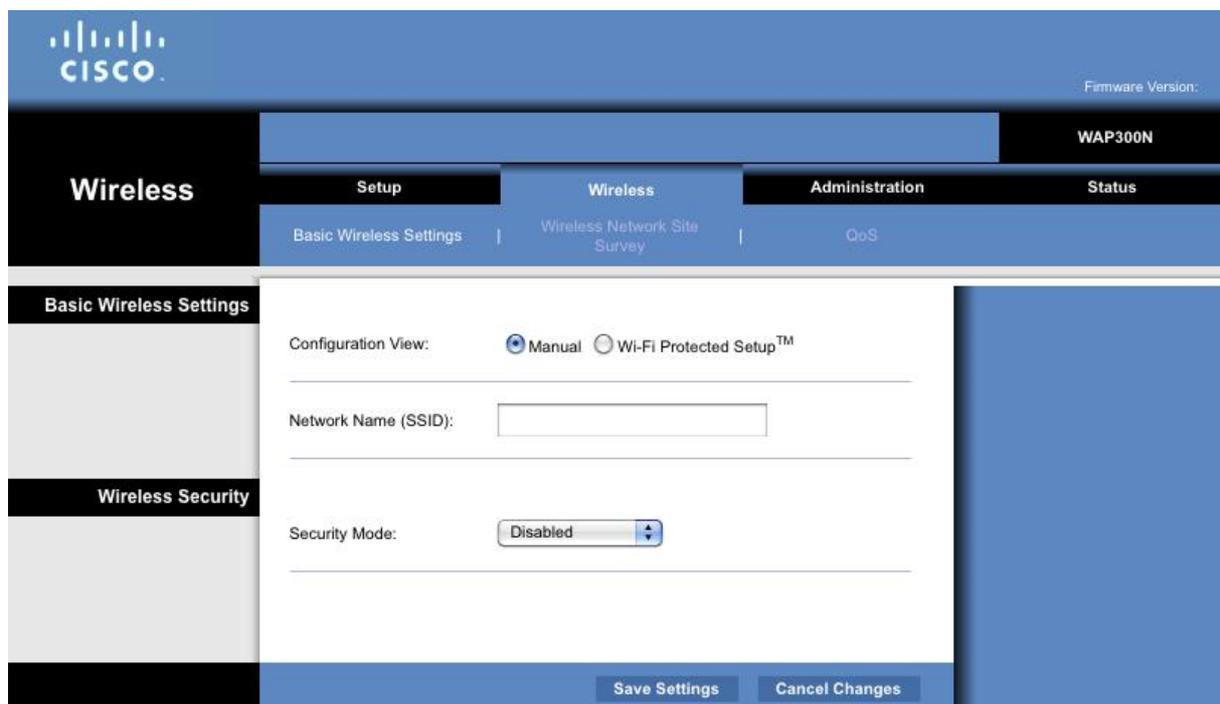
2. Enter Wi-Fi Protected Setup PIN from WAP300N on the Router

- On the router’s Wi-Fi Protected Setup screen, enter the PIN number listed on WAP300N’s Wi-Fi Protected Setup screen. Then click Register or the appropriate button on the router’s Wi-Fi Protected Setup screen. (The PIN number is also listed on the label on the bottom of WAP300N.)
- On WAP300N’s Wi-Fi Protected Setup screen, click OK.
- After WAP300N has been configured, click Close.

Regardless which method was used, the Wi-Fi Protected Setup Status, Wireless Band, Network Name (SSID), and Security mode are displayed at the bottom of the screen.

Manual Setup

On this screen, you manually enter the information of your wireless network to connect this device to your network. Alternatively, you may use Wireless > Wireless Network Site Survey screen to establish the wireless connection (recommended). To establish the connection using Wireless > Wireless Network Site Survey screen.



Network Name (SSID)

The SSID is the name of a wireless network. A wireless device uses this name to identify which wireless network it connects to. Enter the SSID of your wireless network here. The SSID entered here must match the SSID setting on your wireless router or access point. Otherwise, wireless connection to your network cannot be established. SSID is case-sensitive and must not exceed 32 characters.

Security Mode

Select the security mode that matches the security setting on your wireless router or access point. If the setting here does not match the setting on your wireless router or access point, wireless connection to your network will fail and this device will not be able to access your network. If your wireless network does not have security (not recommended), keep the default, Disabled.

Depending on the security mode you have selected, you will be asked to enter additional information (refer to the following table). Once you have filled in all the required information, click Save Settings to apply your changes, or click Cancel Changes to cancel your changes.

Security Mode	Additional Information Required	Description
WPA2 Personal, or	Passphrase	Enter the passphrase shared by this device and

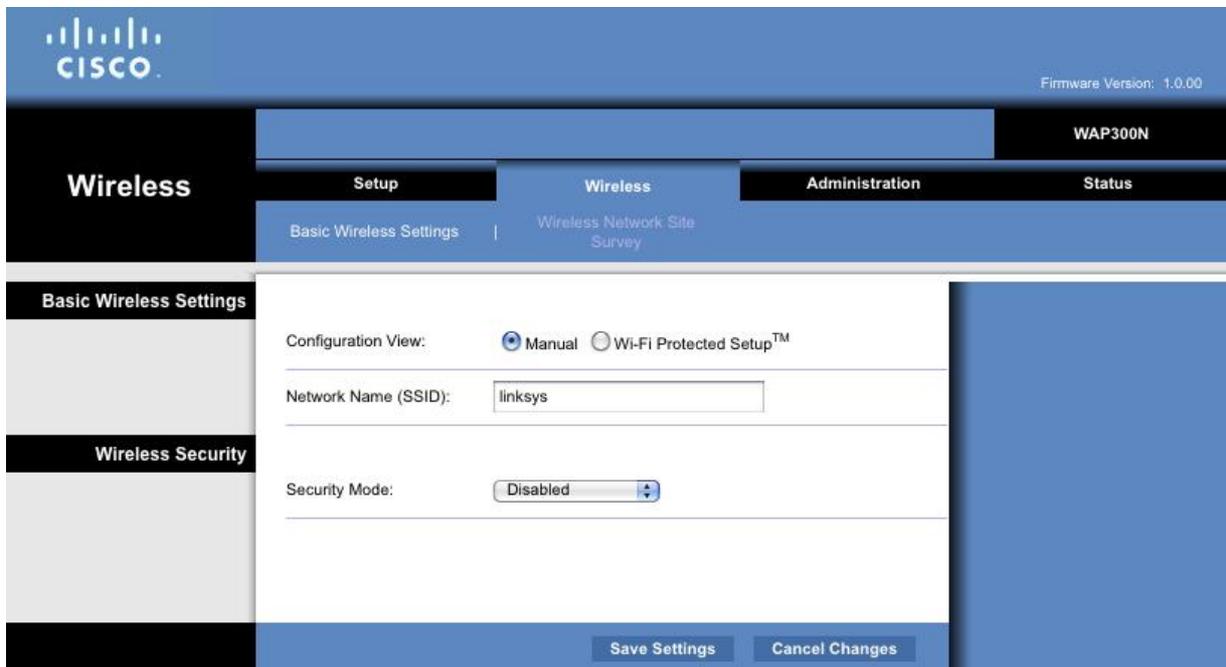
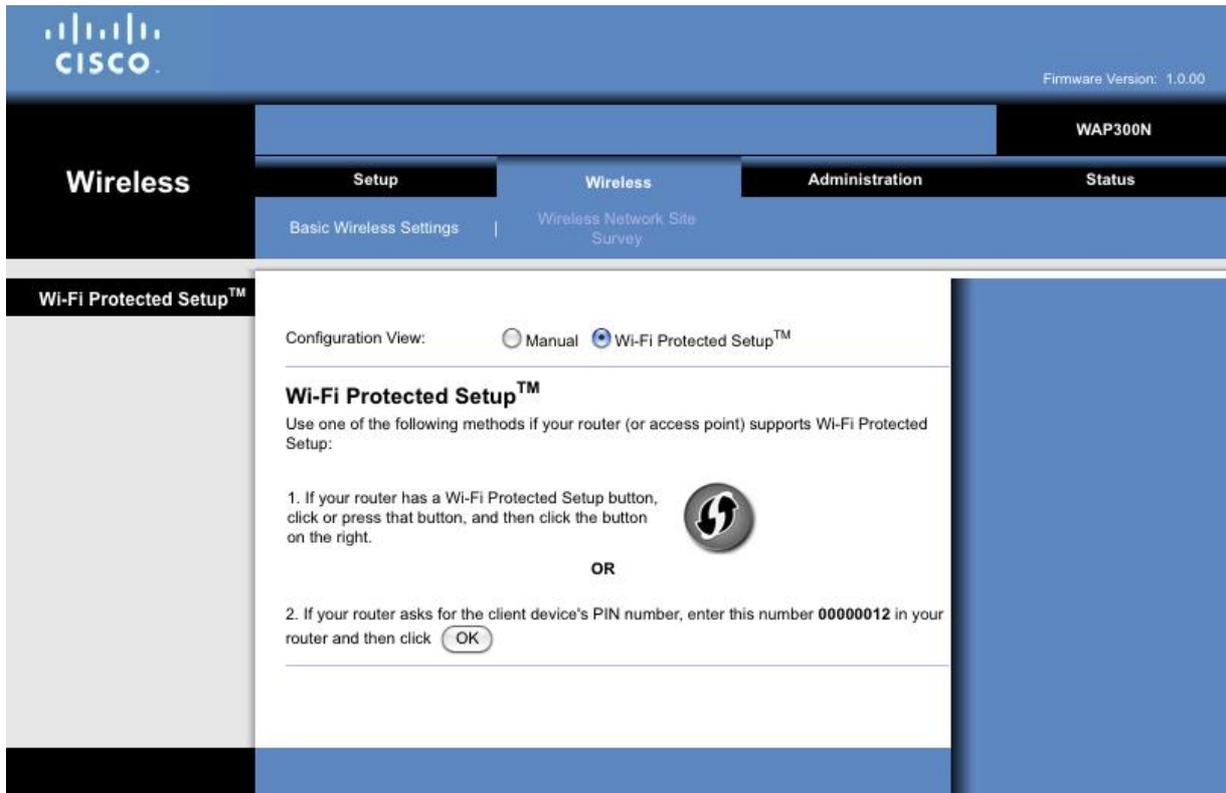
WPA Personal		your wireless router (or access point). It must have 8-63 characters. Also support 64 hex.
WEP	Encryption	Select a level of WEP encryption, 40 / 64-bit (10 hex digits) or 104 / 128-bit (26 hex digits).
	Key 1	Enter the WEP key of your network. Key 1 is the transmit key used by this device.
	Authentication	The default is Auto, which allows either Open system or Shared Key authentication to be used. Select Open to use open system authentication; the sender and recipient do not use a WEP key for authentication. Select Shared to use shared key authentication; the sender and recipient use a WEP key for authentication. No option for authentication change.

Wireless > Basic Wireless Settings

(Wireless Range Extender Mode)

In WRE mode, ...

(1) Basic Wireless Settings page (both WPS view and Manual view) looks like what is in WMC mode if WAP300N has not connected to a wireless router yet. Thus, you may re-use the text in WMC mode.



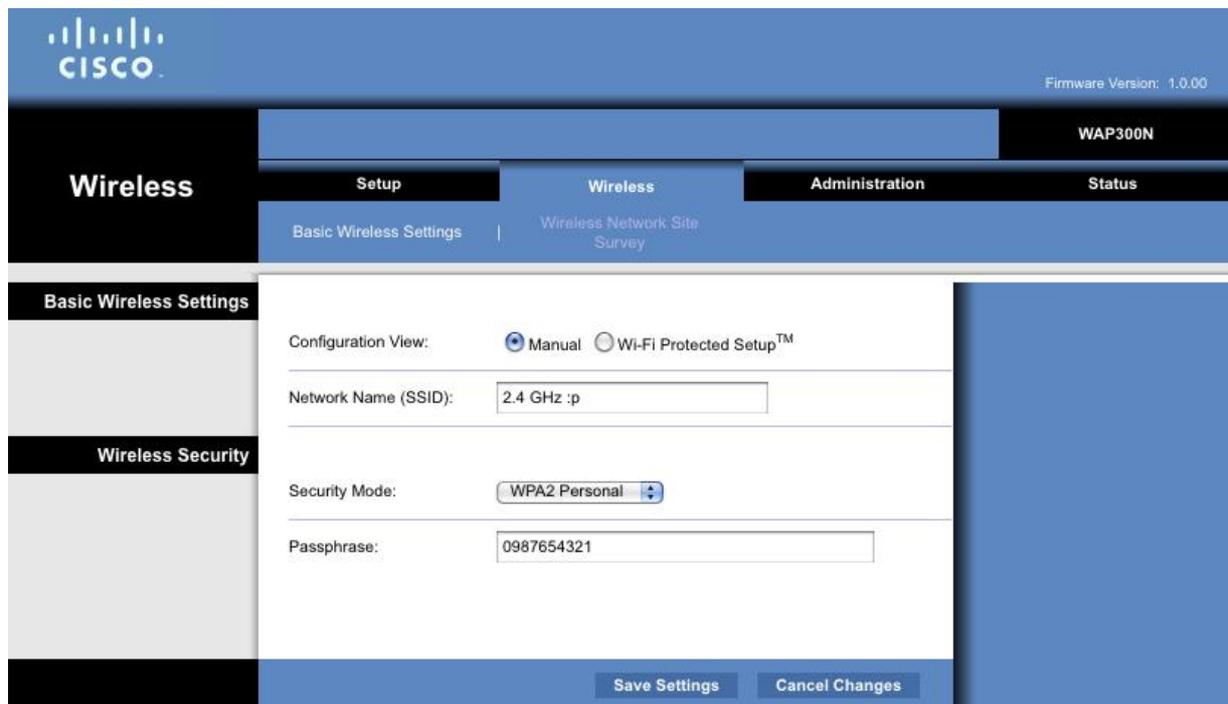
(2) Basic Wireless Settings page, in WPS view, looks like what is in AP mode if WAP300N has already connected to a wireless router. Thus, you may re-use the text in AP mode.

Manual view looks like what is in WMC mode with the info from the wireless router (that WAP300N has connected to) displayed. Thus, you may re-use the text in WUMC mode. If the user wants WAP300N to connect to another wireless router, change these fields and click "Save Settings".

The screenshot displays the Cisco WAP300N configuration interface. At the top left is the Cisco logo, and at the top right, it shows "Firmware Version: 1.0.00". The main navigation bar includes "Wireless" (selected), "Setup", "Wireless", "Administration", and "Status". Below this, there are sub-tabs for "Basic Wireless Settings" and "Wireless Network Site Survey".

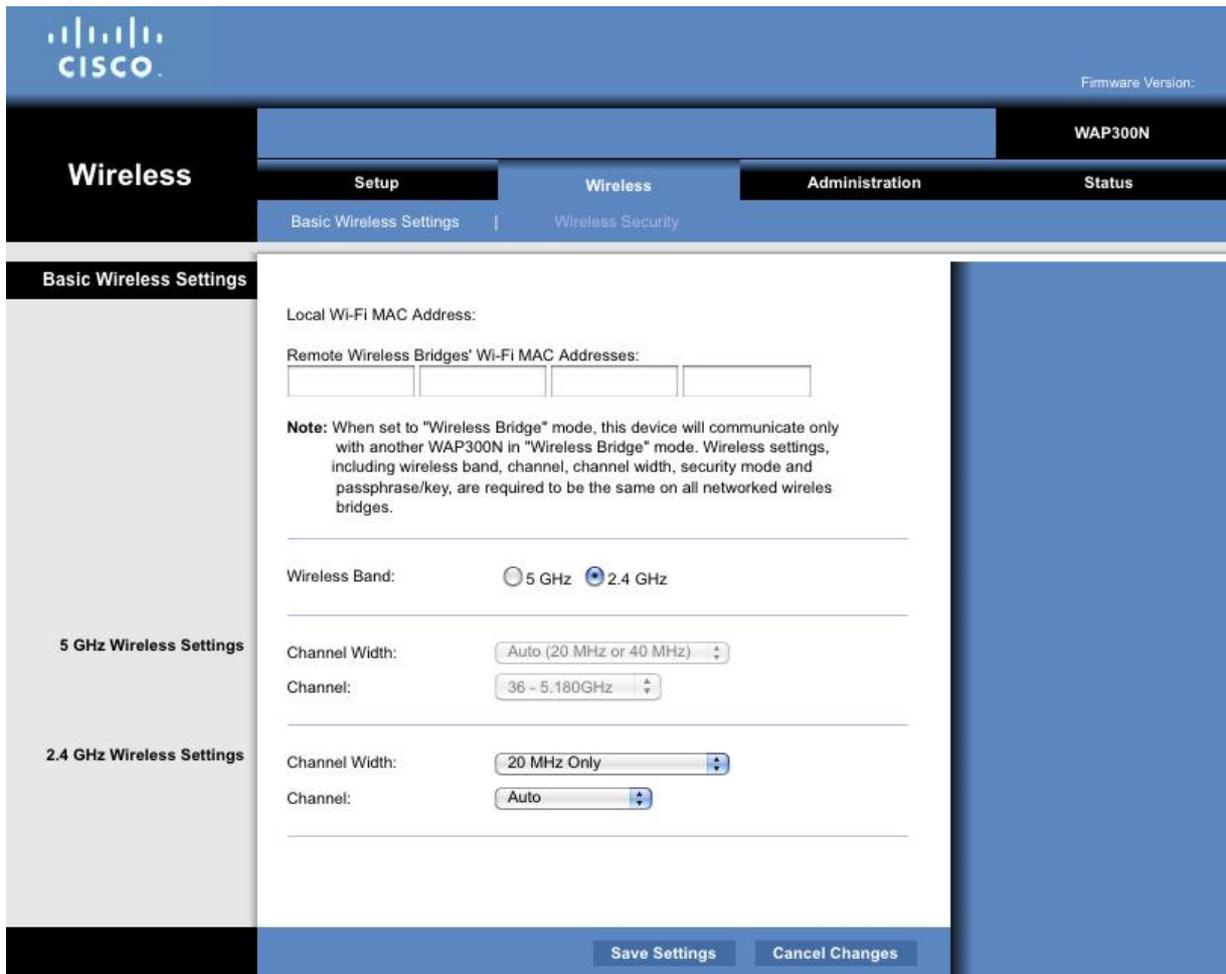
The "Wi-Fi Protected Setup™" configuration page is shown. It features the following elements:

- Configuration View:** Radio buttons for "Manual" and "Wi-Fi Protected Setup™" (selected).
- WPS:** Radio buttons for "Enabled" (selected) and "Disabled".
- Wi-Fi Protected Setup™:** A section header followed by the instruction: "Use one of following for each Wi-Fi Protected Setup™ supported device:".
- Step 1:** "1. If your client device has a Wi-Fi Protected Setup™ button, click or press that button and then click the button on the right." This is accompanied by a circular icon with a Wi-Fi symbol and a refresh symbol.
- OR**
- Step 2:** "2. If your client device has a Wi-Fi Protected Setup™ PIN number, enter that number here [input field] and then click [Register button]".
- OR**
- Step 3:** "3. If your client asks for the router's PIN number, enter this number **02743127** in your client device."
- Status:** "Wi-Fi Protected Setup??™ Status: Unconfigured".
- Wireless Band:** A label with a dropdown menu.
- Network Name (SSID):** A label with a dropdown menu.
- Security:** A label with a dropdown menu.



Wireless > Basic Wireless Settings

(Wireless Bridge Mode)



In RC1 firmware, there is no 5GHz and 2.4GHz wireless settings string in left side.

Local Wi-Fi MAC Address

The Wi-Fi MAC address of this device is displayed here.

Remote Wireless Bridge' Wi-Fi MAC Addresses

Enter the Wi-Fi MAC addresses of other WAP300N units (also in Wireless Bridge mode) you want this device connects to.

Wireless Band

This is used to select the 2.4 GHz or 5 GHz radio band. The 5 GHz band is much less crowded than the 2.4 GHz band, so it is more likely that you will have your own interference-free channel.

Channel Width

For best performance in a Wireless-N network, select 40MHz only (only available in 5 GHz radio band) or Auto. In Auto mode, this device and other WAP300Ns connected to this device automatically switch to the 40 MHz mode if there is no adjacent interference.

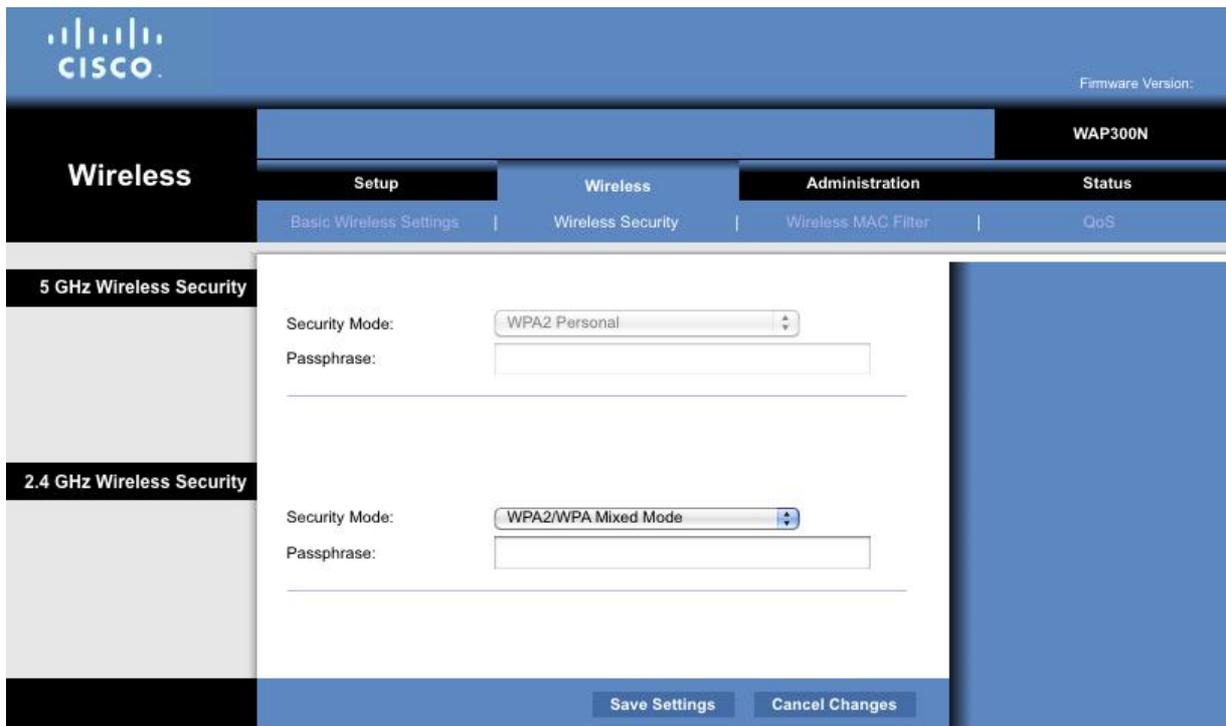
Channel

Choose the operating channel for your wireless network. This device will automatically select the channel with the least amount of interference if you leave the default Auto setting. Keeping the default setting Auto is recommended.

IMPORTANT: When WAP300N is set to Wireless Bridge mode, this device will communicate only with other WAP300N unit(s) that is/are also in Wireless Bridge mode. In addition, all wireless settings, including wireless band, channel, channel width, security mode and security passphrase/key, are also required to be the same on all the networked WAP300N units.

Wireless > Wireless Security

This screen is only available when the device is in Access Point mode and Wireless Bridge mode. (In Wireless Media Connector mode or Wireless Range Extender mode, wireless security is set up via Wireless > Basic Wireless Settings.)



Security Mode

Select the security mode you would like your network to use. WAP300N supports the following wireless security modes when it is set to Access Point mode or Wireless Bridge mode.

	Access Point Mode	Wireless Bridge Mode
WPA2/WPA Mixed Mode	X	
WPA2 Personal	X	X
WPA Personal	X	X
WPA2/WPA Enterprise Mixed Mode	X	
WPA2 Enterprise	X	
WPA Enterprise	X	
WEP	X	X
RADIUS	X	
Disabled	X	X

WEP is a basic encryption method, which is not as secure as WPA or WPA2. WPA is a security standard stronger than WEP encryption. WPA2 is the most advanced and secure among these 3 options and, therefore, WPA2 is the recommended security mode. Leaving security disabled is not recommended.

TIPS:

- Wireless-N networks should use the **WPA2** security mode for the best performance.

- For most home networks, using WPA2 Personal security mode is recommended.

IMPORTANT: When WAP300Ns are networked in Wireless Bridge mode, all wireless settings, including wireless band, channel, channel width, security mode and security passphrase/key, are required to be the same on all the networked WAP300N units.

Depending on what security mode you have selected, you will be asked to enter additional information to complete the settings. Once you have filled in all the required information, click Save Settings to apply your changes, or click Cancel Changes to cancel your changes.

Security Mode	Additional Information Required	Description
WPA2/WPA Mixed Mode, WPA2 Personal, WPA Personal	Passphrase	Enter a passphrase of 8-63 characters. Also support 64 hex.
WPA2/WPA Enterprise Mixed Mode, WPA2 Enterprise, WPA Enterprise	RADIUS Server	Enter the IP Address of the RADIUS server.
	RADIUS Port	Enter the port number of the RADIUS server. The default is 1812.
	Shared Key	Enter the key shared between the Router and the server.
WEP	Encryption	Select a level of WEP encryption, 40 / 64-bit (10 hex digits) or 104 / 128-bit (26 hex digits). The default is 40 / 64-bit (10 hex digits).
	Key 1	Enter the WEP key of your network. Key 1 is the transmit key used by this device.
RADIUS	RADIUS Server	Enter the IP Address of the RADIUS server.
	RADIUS Port	Enter the port number of the RADIUS server. The default is 1812.
	Shared Key	Enter the key shared between the Router and the server.
	Encryption	Select a level of WEP encryption, 40 / 64-bit (10 hex digits) or 104 / 128-bit (26 hex digits). The default is 40 / 64-bit (10 hex digits).
	Key 2	Enter the WEP key of your network. Key 2 is the transmit key used by this device.

Disabled

(None)

(None)

Wireless > Wireless MAC Filter

This screen is only available when the device is set to Access Point mode.

When the device serves as an access point, access to your wireless network can be filtered by specifying the Wi-Fi MAC addresses of the wireless devices within range of your network.

Advanced Firmware Version: WAP300N

Setup | **Wireless** | **Administration** | **Status**

Basic Wireless Settings | Wireless Security | **Wireless MAC Filter** | QoS

Wireless MAC Filter

Enabled Disabled

Access Restriction

Prevent PCs listed below from accessing the wireless network.
 Permit PCs listed below to access the wireless network.

MAC Address Filter List

Wireless Client List

MAC 01:	00:11:30:23:11:00	MAC 17:	00:11:30:23:12:01
MAC 02:	00:11:30:23:11:01	MAC 18:	00:11:30:23:12:02
MAC 03:	00:11:30:23:11:02	MAC 19:	00:11:30:23:12:03
MAC 04:	00:11:30:23:11:03	MAC 20:	00:11:30:23:12:04
MAC 05:	00:11:30:23:11:04	MAC 21:	00:11:30:23:12:05
MAC 06:	00:11:30:23:11:05	MAC 22:	00:11:30:23:12:06
MAC 07:	00:11:30:23:11:06	MAC 23:	00:11:30:23:12:07
MAC 08:	00:11:30:23:11:07	MAC 24:	00:11:30:23:12:08
MAC 09:	00:11:30:23:11:08	MAC 25:	00:11:30:23:12:09
MAC 10:	00:11:30:23:11:09	MAC 26:	00:11:30:23:12:0A
MAC 11:	00:11:30:23:11:0A	MAC 27:	00:11:30:23:12:0B
MAC 12:	00:11:30:23:11:0B	MAC 28:	00:11:30:23:12:0C
MAC 13:	00:11:30:23:11:0C	MAC 29:	00:11:30:23:12:0D
MAC 14:	00:11:30:23:11:0D	MAC 30:	00:11:30:23:12:0E
MAC 15:	00:11:30:23:11:0E	MAC 31:	00:11:30:23:12:0F
MAC 16:	00:11:30:23:11:0F	MAC 32:	00:11:30:23:12:00

Save Settings **Cancel Changes**

Wireless MAC Filter

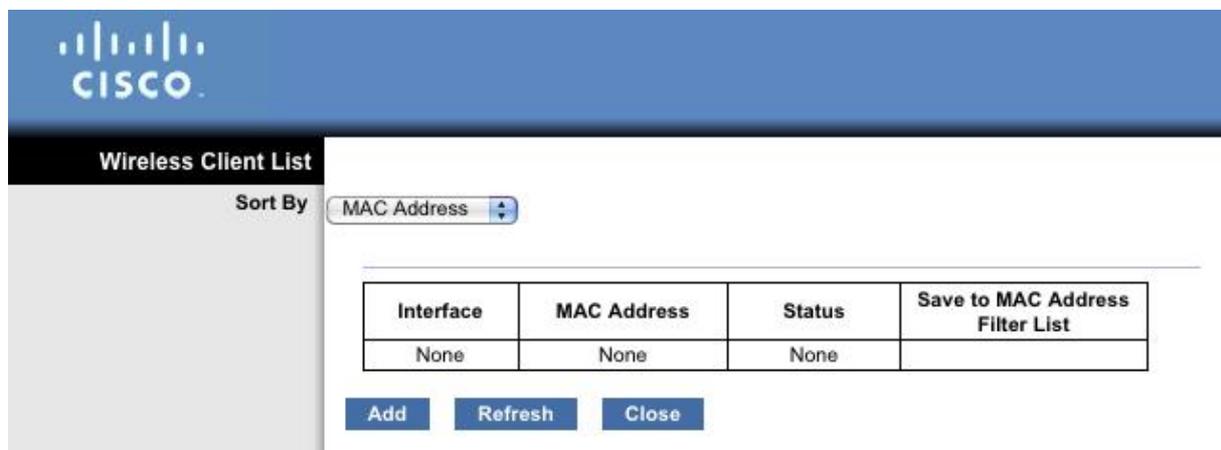
To filter wireless users by MAC Address, either permitting or blocking access, select Enabled. If you do not wish to filter users by MAC Address, keep the default setting, Disabled.

Access Restriction

To block wireless access by MAC Address, select Prevent. To allow wireless access by MAC Address, select Permit.

Wireless Client List

Click this button to open the Wireless Client List screen.



This screen shows computers and other devices on the wireless network. The list can be sorted by MAC Address or by Status.

Select Save to MAC Address Filter List for any device you want to add to the MAC Address Filter List. Then click Add.

To retrieve the most up-to-date information, click Refresh. To return to the Wireless MAC Filter screen, click Close.

MAC 01-32

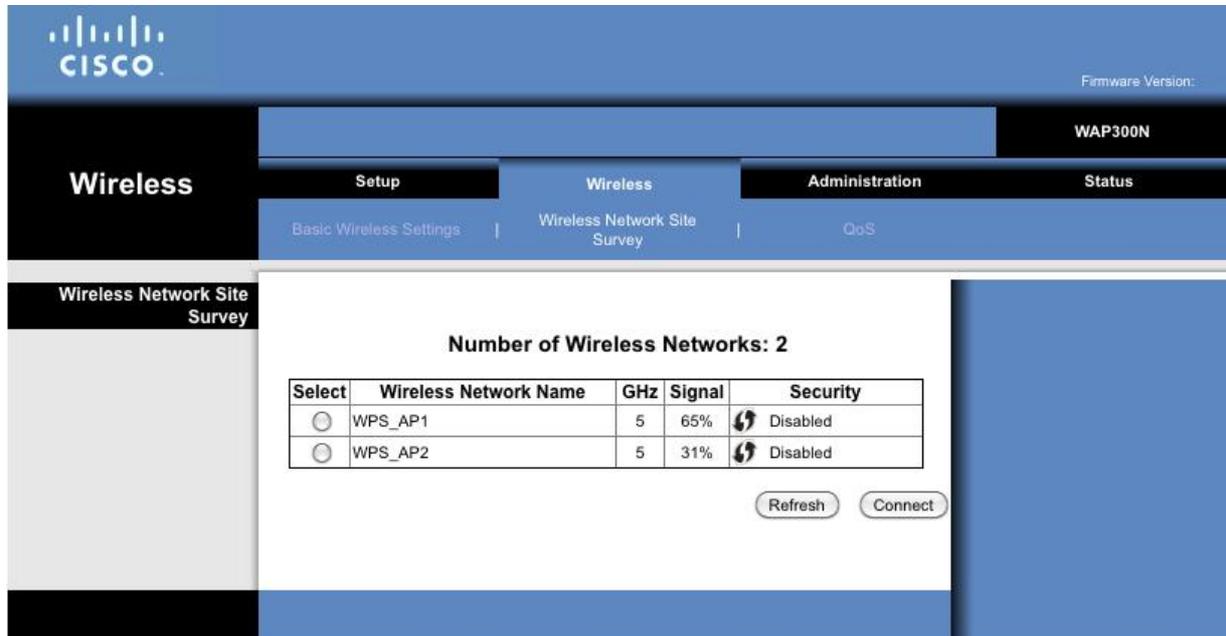
Enter the Wi-Fi MAC addresses of the devices whose wireless access you want to block or allow.

Click Save Settings to apply your changes, or click Cancel Changes to cancel your changes.

Wireless > Wireless Network Site Survey

This page is only available when the device is in Wireless Media Connector mode and Wireless Range Extender mode. This screen provides an easy method of finding surrounding wireless networks hosted

by routers and access points within the wireless range of WAP300N, so that you can easily select one of them and connect WAP300N to it.



Number of Wireless Networks

The number of wireless networks detected by this device is displayed.

Select

To connect to a wireless network, click Select. Then click Connect.

Wireless Network Name

The network name, also known as SSID, of the wireless network is displayed.

Signal

The percentage of signal strength is displayed. 100% is the strongest signal strength possible; 0% is the weakest possible.

Security

The security method used by the wireless network is displayed. If the network supports Wi-Fi Protected Setup, the Wi-Fi Protected Setup icon is also displayed.

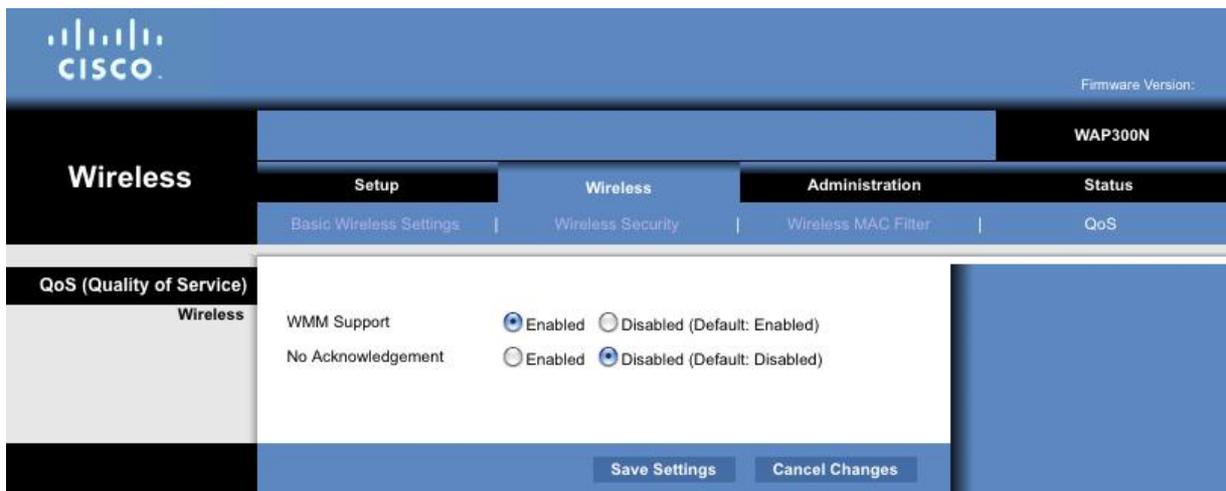
Click Refresh if you want to update the on-screen information.

After you have selected a network, click Connect. A new screen appears. In the new screen, Network Name (SSID) and Security Mode of the wireless network you have selected will automatically be displayed. Depending on the security mode of the network, you will be asked to enter additional information (see the following table). Once you have entered all the required information, click Connect to connect to the network.

Security Mode	Additional Information Required	Description
WPA2 Personal, or WPA Personal	Passphrase	Enter the passphrase shared by this device and your wireless router (or access point). It must have 8-63 characters. Also support 64 hex.
WEP	Encryption	Select a level of WEP encryption, 40 / 64-bit (10 hex digits) or 104 / 128-bit (26 hex digits).
	Key 1	Enter the WEP key of your network. Key 1 is the transmit key used by this device.
	Authentication	The default is Auto, which allows either Open system or Shared Key authentication to be used. Select Open to use open system authentication; the sender and recipient do not use a WEP key for authentication. Select Shared to use shared key authentication; the sender and recipient use a WEP key for authentication.

Wireless > QoS

This screen is available only when the device is set to Access Point mode and Wireless Media Connector mode.



WMM Support

Wi-Fi Multimedia (WMM) is a wireless Quality of Service feature that improves quality for audio, video, and voice applications by prioritizing wireless traffic. To take advantage of this feature, the other wireless devices connected to WAP300N must also support WMM. To disable this option, select Disabled. Otherwise, keep the default, Enabled.

No Acknowledgement

If you do not want the device to re-send data when an error occurs, select Enabled. Otherwise, keep the default, Disabled.

Administration > Management

The screenshot shows the Cisco WAP300N Administration interface. The top navigation bar includes the Cisco logo, the device model 'WAP300N', and the firmware version. The main navigation menu is divided into 'Setup', 'Wireless', and 'Administration'. The 'Administration' section is further divided into 'Management', 'Factory Defaults', and 'Firmware Upgrade'. The left sidebar lists the following categories: Management, Device Access, Local Management Access, Backup and Restore, and System Reboot. The main content area displays the following configuration options:

- Device Access:** Device Password (masked with asterisks), Re-enter to confirm (masked with asterisks), and Idle Timeout (set to 600 seconds, with a range of 60-3600 seconds).
- Local Management Access:** Access via Wireless (radio buttons for Enabled and Disabled, with Enabled selected).
- Backup and Restore:** Backup (Backup Configurations button), Restore (text input field, Browse... button, and Restore Configurations button).
- System Reboot:** Reboot (Start to Reboot button).

At the bottom of the page, there are two buttons: 'Save Settings' and 'Cancel Changes'.

Device Password

Enter a unique password to prevent unauthorized access to the browser-based utility of this device.

Re-enter to confirm

Enter the password again to confirm.

Idle Timeout

The login times out after a period of inactivity that you specify. The range is 60 to 3600 seconds. The default is 600.

Access via Wireless

If you are using this device in a public domain or you are giving wireless access of your network to your guests, you can disable wireless access to this device's browser-based utility. You will only be able to access the browser-based utility via a wired connection if you disable the setting. Keep the default, Enabled, to allow wireless access to the device's browser-based utility, or select Disabled to block wireless access to the utility.

Backup

To back up the device's configuration file, click Backup Configurations. Then follow the on-screen instructions.

Restore

Click Browse and select the configuration file. Then click Restore Configurations.

Reboot

To reboot or restart the device, click Start to Reboot.

Click Save Settings to apply your changes, or click Cancel Changes to cancel your changes.

Administration > Factory Defaults

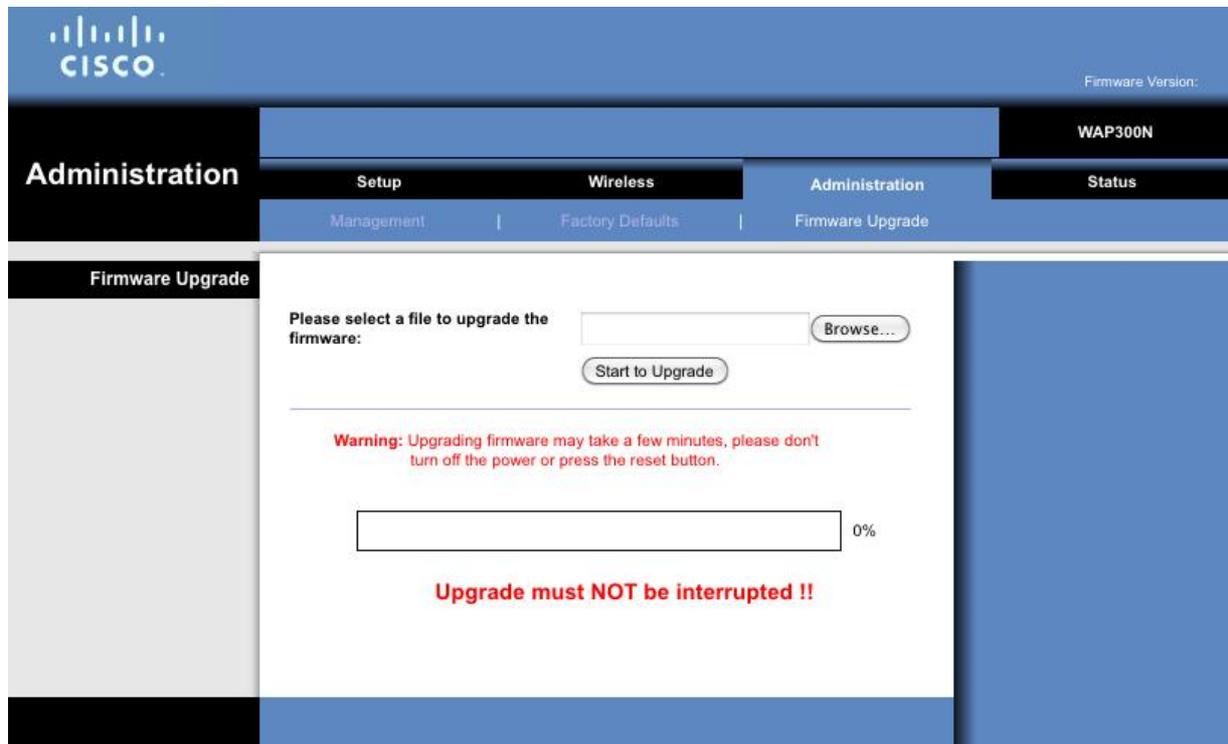


Restore Factory Defaults

To reset the device's settings to the factory defaults, click Restore Factory Defaults. Any settings you have saved previously will be lost when the default settings are restored.

Administration > Firmware Upgrade

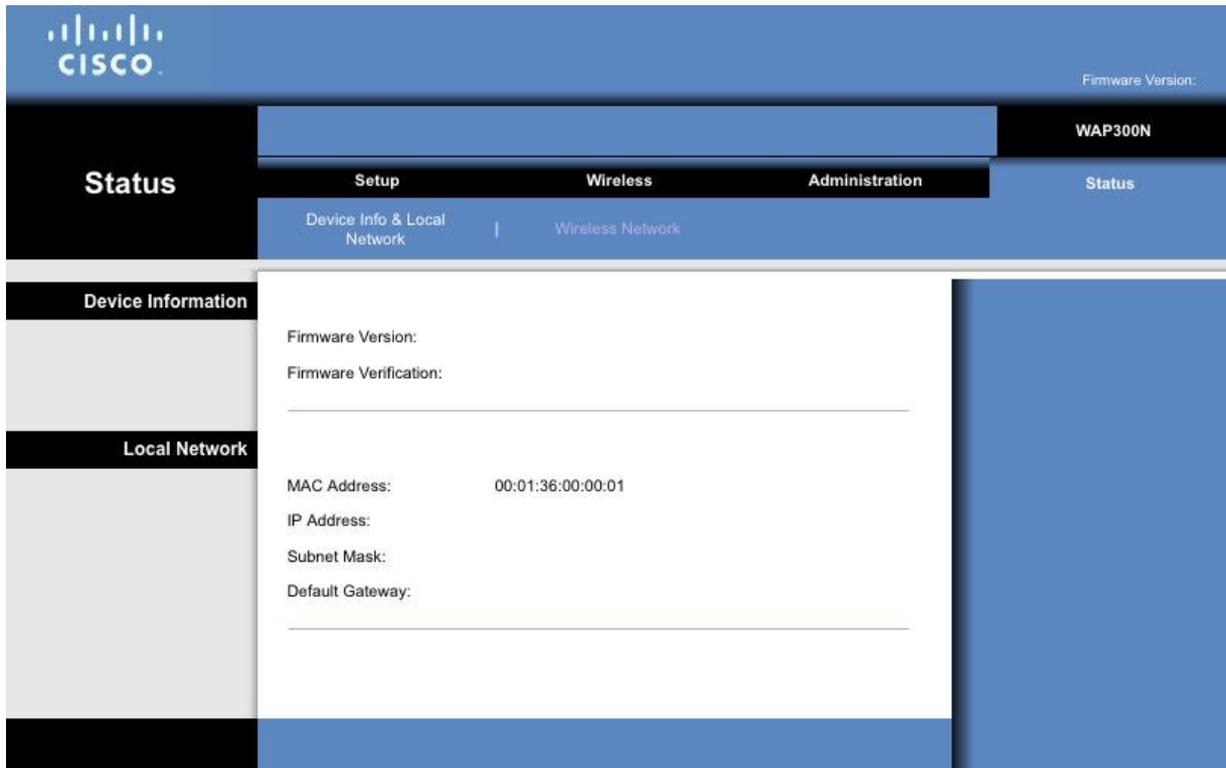
Use this screen to upgrade the device's firmware. Do not upgrade the firmware unless you are experiencing problems with the device or the new firmware has a feature you want to use. Before upgrading the firmware, download the device's firmware upgrade file from the Linksys website, www.Linksys.com/support.



Please select a file to upgrade the firmware

Click Browse and select the firmware upgrade file. Then click Start to Upgrade and follow the on-screen instructions.

Status > Device Info & Local Network



Firmware Version

The device's current firmware version is displayed.

Firmware Verification

It is a number that is used by customer support to verify the firmware.

MAC Address

The device's Ethernet port MAC Address is displayed.

IP Address

The device's IP Address, as seen on your local network, is displayed.

Subnet Mask

The subnet mask configured for your local network is displayed.

Default Gateway

The default gateway configured for your local network is displayed.

Status > Wireless Network

Information about your wireless network is displayed on this screen. However, the availability of information depends on the operation mode that you have selected.

	Access Point	Wireless Media Connector	Wireless Range Extender	Wireless Bridge
Operation Mode	X	X	X	X
MAC Address	X	X	X	X
Link Status		X	X	X
Network Name (SSID)	X	X	X	X
Network Mode	X		X	
Radio Band	X	X	X	X
Channel	X	X	X	X
Channel Width	X	X	X	X
Security	X	X	X	X
Signal		X	X	
Bit Rate		X	X	
SSID Broadcast	X		X	

Operation Mode

The current operation mode of this device is displayed.

MAC Address

The MAC Address of the device's wireless (Wi-Fi) interface is displayed.

Link Status

The status of the connection to your wireless network is displayed.

Network Name (SSID)

The name of your wireless network (also known as SSID) is displayed.

Network Mode

The network mode used by your network is displayed.

Channel Width

The channel width (in MHz) used by your wireless network is displayed.

Radio Band

The radio band (in GHz) on which your wireless network resides is displayed.

Channel

The channel setting is displayed.

Security

The security mode of your wireless network is displayed.

Bit Rate

The data transmission rate is displayed.

Signal

The percentage of signal strength is displayed. 100% is the strongest signal strength possible, and 0% is the weakest.

SSID Broadcast

The status of SSID broadcast (enabled or disabled) is displayed.

Access Point mode:

CISCO Firmware Version: WAP300N

Status | **Setup** | **Wireless** | **Administration** | **Status**

Device Info & Local Network | Wireless Network

Wireless Network

Operation Mode	Access Point
MAC Address:	00:01:36:00:00:01
Network Name (SSID):	WAP300N
Network Mode:	B-Only
Radio Band:	
Channel:	6
Channel Width:	
Security:	Disable
SSID Broadcast:	Enable

Wireless Media Connector Mode:

The screenshot displays the Cisco WAP300N web interface. At the top left is the Cisco logo. The top right corner shows the firmware version as WAP300N. The main navigation bar includes 'Status', 'Setup', 'Wireless', and 'Administration'. The 'Wireless' section is active, showing 'Device Info & Local Network' and 'Wireless Network' options. The 'Wireless Network' page displays the following configuration details:

Operation Mode	Wireless Media Connector
MAC Address:	00:01:36:00:00:02
Link Status:	Disconnected
Network Name (SSID):	
Radio Band:	
Channel:	
Channel Width:	
Security:	
Signal:	
Bit Rate:	

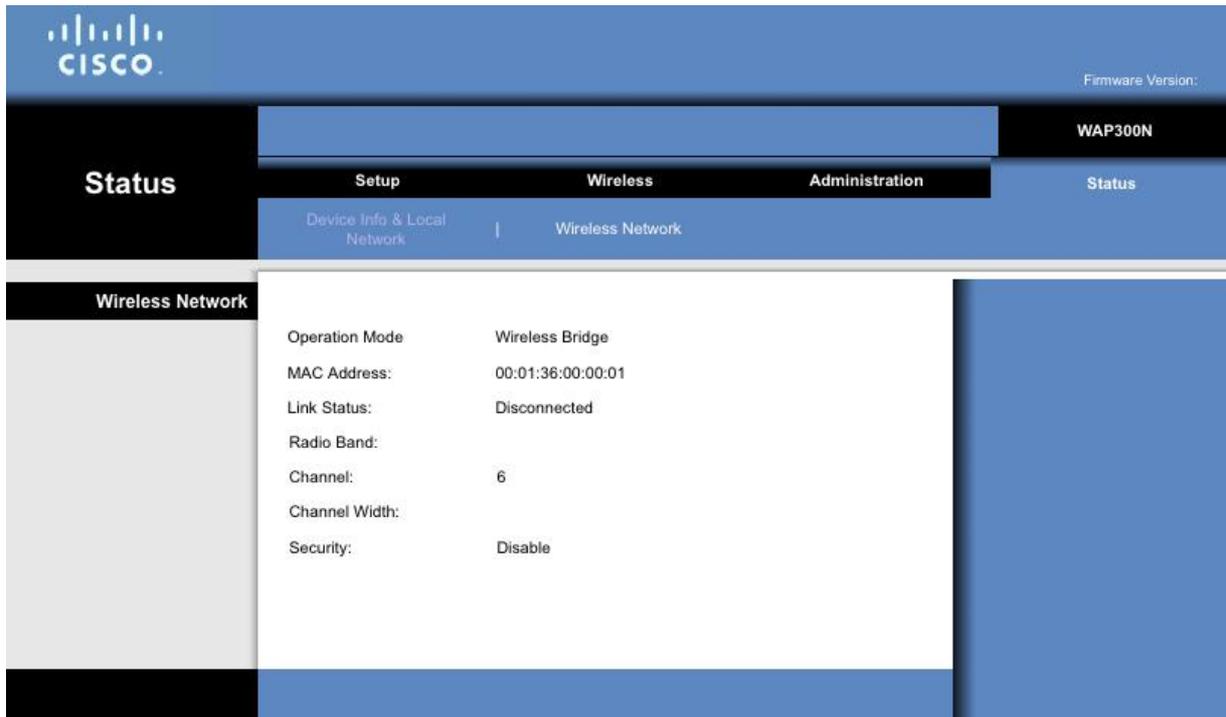
Wireless Range Extender Mode:

The screenshot shows the Cisco WAP300N web interface. At the top left is the Cisco logo. At the top right, it says "Firmware Version: WAP300N". The main navigation bar includes "Status", "Setup", "Wireless", and "Administration". The "Wireless" section is active, showing "Device Info & Local Network" and "Wireless Network". The "Wireless Network" page displays the following information:

Operation Mode	Wireless Range Extender
MAC Address:	00:01:36:00:00:02
Link Status:	Disconnected
Network Name (SSID):	
Network Mode:	
Radio Band:	
Channel:	
Channel Width:	
Security:	
Signal:	
Bit Rate:	
SSID Broadcast:	

Wireless Bridge Mode:

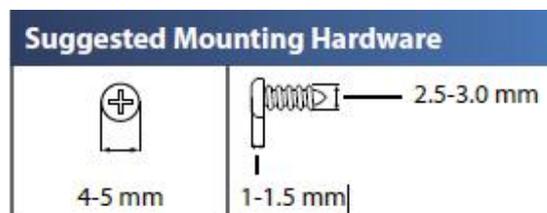
Lack the Network Name (SSID)



Wall Mount

WAP300N has two wall-mount slots on the bottom panel. This article will guide you on mounting your WAP300N on a wall.

For WAP300N, the distance between the slots is **135 mm**. Two screws (not included) are needed to mount the gateway.



NOTE: Cisco is not responsible for damages incurred by unsecured wall-mounting hardware.

Step 1:

Determine where you want to mount the WAP300N. Make sure that the wall you use is smooth, flat, dry, and sturdy. In addition, make sure that the location is near an electrical outlet.

Step 2:

Drill two holes into the wall. Ensure that the holes are 135 mm apart.

Step 3:

Insert a screw into each hole, and leave **3 mm** of its head exposed.

Step 4:

Position the WAP300N so the wall-mount slots line up with the two screws.

Step 5:

Place the wall-mount slots over the screws and slide the WAP300N down until the screws fit snugly into the wall-mount slots.

Specifications

Model	WAP300N
Description	Linksys Wireless-N Access Point
Ethernet Port Speed	10/100 Mbps (Fast Ethernet)
Radio Frequency	2.4 or 5 GHz
Number of Antennas	2
Antenna Type	External dipole antenna with R-SMA connector
Detachable	Yes
Ports	Power, Ethernet
Buttons	Reset, Wi-Fi Protected Setup™
LEDs	Power, Wi-Fi Protected Setup, Ethernet, Wireless
Wireless Security Features	WEP, Wi-Fi Protected Access™ (WPA), Wi-Fi Protected Access™ 2 (WPA2), Wireless MAC Filtering
Security Key Bits	Up to 128-bit encryption
Dimensions	188.7 × 151.7 × 31.2 mm, without external antennas (7.43" × 5.97" × 1.23")
Power	12V, 0.5A
Certifications	FCC, UL/cUL, ICES-003, RSS210, CE, Wi-Fi (IEEE 802.11a/b/g/n), WPA2™, WMM®, Wi-Fi Protected Setup™
Operating Temperature	0 to 40°C (32 to 104°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Operating Humidity	10 to 80% non-condensing
Storage Humidity	5 to 90% non-condensing